

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A method of identifying data loss in a transmission system, comprising:

shifting one of a received waveform and a transmitted waveform, the transmitted waveform being a first signal that is transmitted from a transmitter to a receiver over a transmission medium, the received waveform being a second signal that is received by the receiver from the transmitter over the transmission medium;

02 determining differences between the transmitted and received waveforms at various shift points; and

identifying a smallest of the differences between the transmitted and received waveforms.

2. (Original) The method of claim 1, further comprising:

generating a plot of the differences relative to the shift points;

wherein the smallest of the differences comprises a low vertex point on the plot.

3. (Original) The method of claim 1, wherein shifting comprises:

moving the transmitted waveform relative to the received waveform in a first direction;
and
moving the transmitted waveform relative to the received waveform in a second
direction.

4. (Original) The method of claim 1, wherein shifting comprises:
moving the received waveform relative to the transmitted waveform in a first direction;
and
moving the received waveform relative to the transmitted waveform in a second
direction.

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make up the a plot.

6. (Original) The method of claim 1, further comprising:
normalizing the transmitted and received waveforms so that the transmitted and received
waveforms contain positive data.

7. (Original) The method of claim 1, wherein the transmitted and received waveforms
comprise audio data.

8. (Currently Amended) The method of claim 1, wherein the transmission system comprises a the transmitter, a the transmission medium, and a the receiver.

9. (Original) The method of claim 1, wherein the shift points are defined in terms of time in the transmitted and received waveforms.

10. (Original) The method of claim 1, wherein the shift points are defined in terms of data samples in the transmitted and received waveforms.

11. (Currently Amended) An article comprising a machine-readable medium that stores executable instructions for identifying data loss in a transmission system, the instructions causing a machine to:

a² cut. shift one of a received waveform and a transmitted waveform, the transmitted waveform being a first signal that is transmitted from a transmitter to a receiver over a transmission medium, the received waveform being a second signal that is received by the receiver from the transmitter over the transmission medium;

determine differences between the transmitted and received waveforms at various shift points; and

identify a smallest of the differences between the transmitted and received waveforms.

12. (Original) The article of claim 11, further comprising instructions that cause the machine to:

generate a plot of the differences relative to the shift points;

wherein the smallest of the differences comprises a low vertex point on the plot.

13. (Original) The article of claim 11, wherein shifting comprises:

moving the transmitted waveform relative to the received waveform in a first direction;

and

moving the transmitted waveform relative to the received waveform in a second

direction.

14. (Original) The article of claim 11, wherein shifting comprises:

moving the received waveform relative to the transmitted waveform in a first direction;

and

moving the received waveform relative to the transmitted waveform in a second

direction.

15. (Currently Amended) The article of claim 11, wherein an odd number of shift points

make up ~~the~~ a plot.

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16. (Original) The article of claim 11, further comprising instructions that cause the machine to:

normalize the transmitted and received waveforms so that the transmitted and received waveforms contain positive data.

17. (Original) The article of claim 11, wherein the transmitted and received waveforms comprise audio data.

18. (Currently Amended) The article of claim 11, wherein the transmission system comprises a the transmitter, a the transmission medium, and a the receiver.

19. (Original) The article of claim 11, wherein the shift points are defined in terms of time in the transmitted and received waveforms.

20. (Original) The article of claim 11, wherein the shift points are defined in terms of data samples in the transmitted and received waveforms.

21. (Currently Amended) An apparatus for identifying data loss in a transmission system, comprising:

a memory that stores executable instructions; and

a processor that executes the instructions to:

shift one of a received waveform and a transmitted waveform, the transmitted waveform being a first signal that is transmitted from a transmitter to a receiver over a transmission medium, the received waveform being a second signal that is received by the receiver from the transmitter over the transmission medium;

determine differences between the transmitted and received waveforms at various shift points; and

identify a smallest of the differences between the transmitted and received waveforms.

22. (Original) The apparatus of claim 21, wherein the processor executes instructions to: generate a plot of the differences relative to the shift points; wherein the smallest of the differences comprises a low vertex point on the plot.

23. (Original) The apparatus of claim 21, wherein shifting comprises: moving the transmitted waveform relative to the received waveform in a first direction;

and

moving the transmitted waveform relative to the received waveform in a second direction.

24. (Original) The apparatus of claim 21, wherein shifting comprises: moving the received waveform relative to the transmitted waveform in a first direction;

and

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moving the received waveform relative to the transmitted waveform in a second direction.

25. (Currently Amended) The apparatus of claim 21, wherein an odd number of shift points make up ~~the~~ a plot.

26. (Original) The apparatus of claim 21, wherein the processor executes instructions to: normalize the transmitted and received waveforms so that the transmitted and received waveforms contain positive data.

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cent 27. (Original) The apparatus of claim 21, wherein the transmitted and received waveforms comprise audio data.

28. (Currently Amended) The apparatus of claim 21, wherein the transmission system comprises a the transmitter and a the transmission medium, and the apparatus comprises a the receiver that is capable of receiving the received waveform over the transmission medium.

29. (Original) The apparatus of claim 21, wherein the shift points are defined in terms of time in the transmitted and received waveforms.

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30. (Original) The apparatus of claim 21, wherein the shift points are defined in terms of

data samples in the transmitted and received waveforms.
